CONTENTS

Vol. 172, No. 1, January 1994

Monoamine oxidase activity in rat organs during pregnancy. *H. Kono, Y.C. Lin, M. Yamaguchi, F.P. Zuspan, R.W. O'Shaughnessy, A.C. Lee, N. Furuhashi, T. Yokaichiya, K. Takayama and A. Yajima* 1

Histopathologic findings of lung vessels in five children with primary pulmonary hypertension. *T. Sato, T. Akiba, H. Suzuki, M. Nakasato, S. Sato, M. Yoshikawa and S. Yamaki* 9

Perineural tumor invasion and its relation with the lymphogenous spread in human and experimental carcinoma of bile duct. A computer-aided 3-D reconstruction study. *M. Suzuki, T. Takahashi, K. Ouchi and S. Matsuno* 17

Electrophysiological analysis of effect of propranolol in rabbit S2 proximal straight tubule. *Y. Kondo, Y. Igarashi, K. Kudo, N. Takahashi, O. Ito, C.N. Inoue, I. Fujiwara and K. Abe* 29

Changes in the gap junction of rat exocrine pancreatic cells induced by long-term ethanol ingestion. *T. Sato* 39

Histological evaluation of mixed mesodermal tumor of the ovary. *K. Ito* 51

A preterm infant with secondary carnitine deficiency due to MCT formula — Effective treatment of L-carnitine —. *A. Ishida, A. Goto, Y. Takahashi, W. Nakajima, H. Arai, Y. Tazawa and G. Takada* 59

Comparison of DNA polymerases α, δ, and ε of mouse cell line FM3A and its temperature-sensitive mutant tsFT20. *H. Ikehata* 65

Two cases of porphyria cutanea tarda associated with chronic hepatitis positive for the antibody against hepatitis C virus. *A. Kanno, H. Amakasu, W. Torinuki, T. Yamamoto, M. Ishii, N. Numata and H. Ohori* 83

Changes of plasma lipid and lipoproteins by rehabilitation therapy for stroke. *T. Sato, M. Hiwatari, E. Sato, H. Watanabe and M. Yasujima* 91

Vol. 172, No. 2, February 1994

Long term follow-up of Cushing's disease treated with reserpine and pituitary irradiation followed by subtotal adrenalectomy. *M. Murayama, K. Yasuda, Y. Minamori, L.B. Mercado-Asis, N. Yamakita, H. Morita and K. Miura* 97

Denopamine augments the left ventricular pump function in infants with ventricular septal defect and pulmonary hypertension: Doppler echocardiographic analysis. *H. Tomita, K. Ikeda and S. Chiba* 111

The biological significance of glycyrrhizin- and glycyrrhetinic acid derivative-induced selective phosphorylation of histones H2A and H2B by A-kinase in vitro. *F. Shamsa, T. Iwasa, H. Saito, N. Nagata and K. Ohtsuki* 123

CA19-9 in mature cystic teratoma. *K. Ito* 133

Influence of HLA antigens on reproduction among Japanese population: Study of haplotypes in 247 families. *H. Hoshiai, M. Ishikawa, K. Noda, K. Takahama, T. Fukaya and A. Yajima* 139

Effect of glycyrrhizin in children with liver dysfunction associated with cytomegalovirus infection. *K. Numazaki, M. Umetsu and S. Chiba* 147

Left ventricular contractile state of early human neonates with patent ductus arteriosus. *Y. Takahashi, K. Harada, T. Shiota, M. Tamura, H. Noguchi, A. Ishida and G. Takada* 155

Vasodilator mechanisms of action of amrinone do not involve the opening of either ATP-sensitive or Ca^{2+}-activated K^+channels. *K. Orito, K. Satoh and N. Taira* 163

Vol. 172, No. 3, March 1994

Morphological changes in the mouse popliteal lymph node after local injection of dextran sulfate. *K. Horie, H. Hoshi, K. Hamano and T. Kaneko* 175

Morphological analysis of multinucleated giant cells occurred in experimental autoimmune myocarditis. *M. Saeki, H. Takahashi-Iwanaga, T. Iwanaga, T. Fujita, M. Kodama, H. Hanawa, S. Zhang, T. Izumi and A. Shibata* 195

Is treatment of long-term and consecutive use of clomiphene citrate effective in anovulatory patients? Results of multi-centric retrospective studies. *T. Fukaya, A. Tsuiki, C. Mansfield and A. Yajima* 205

Atypical bronchoplasty to lung cancer and benign bronchial disease. *N. Tsubota, M. Yoshimura, A. Murotani, Y. Miyamoto and Y. Matoba* 209

The role of macrophage colony stimulating factor in the peritoneal fluid in infertile patients with endometriosis. *T. Fukaya, J. Sugawara, H. Yoshida and A. Yajima* 221

Right ventricular diastolic filling in the first day of life. *K. Harada, T. Shiota, Y. Takahashi, T. Suzuki, M. Tamura and G. Takada* 227

Time-dependent ovulation-blocking effect of ether anesthesia differs from pentobarbital in rats. *C.-Y. Kim, K. Wakabayashi and T. Nobunaga* 237

Lack of correlation between interleukin 6 and interleukin 1 levels in psoriatic lesional skin. *H. Takematsu and H. Tagami* 243

Ischemic brain damage induced by repeated brief occlusions of bilateral common carotid artery in rats. *T. Nagahori, M. Nishijima, S. Endo, A. Takaku and Y. Iwasaki* 253

Localization of several G-protein subunits in human kidney. *S. Ishidoya, A. Fukuzaki and S. Orikasa* 263

Prognostic impact of the period between surgery and postoperative irradiation in esophageal carcinoma. *S. Yamada, Y. Takai, K. Nemoto, Y. Ogawa, Y. Kakuto, A. Hoshi and K. Sakamoto* 275

Mutation of the p53 gene in gallbladder cancer. *S. Takagi, E. Naito, H. Yamanouchi, H. Ohtsuka, R. Kominami and M. Yamamoto* 283

Short Report

Potentiation of antitumor effect of bleomycin by local electric pulses in mouse bladder tumor. *O. Yamaguchi, C. Irisawa, K. Baba, M. Ogihara, T. Yokota and Y. Shiraiwa* 291

Vol. 172, No. 4, April 1994

Review

Enzymatic modulation of bronchoconstriction, gland secretion, plasma

extravasation and cough. *K. Sekizawa* 295

Regular Contributions

Histomorphometric study of intratrabecular osteons in the iliac bone in three metabolic bone diseases. *K. Sato and P.D. Byers* 317

Direct compression by megadolichobasilar anomaly as a cause of trigeminal neuralgia; A case diagnosed by MRI. *M. Yoshida and M. Asano* 327

Percutaneous biopsy for adrenal tumors using ultrasonically guided puncture. *M. Kojima, M. Saitoh, H. Itoh, O. Ukimura, H. Ohe and H. Watanabe* 333

Derivation and application of monoclonal antibodies recognizing several epitopes on bovine serum albumin. *J. Wang, T. Masuko, H. Ueno, H. Hojo and Y. Hashimoto* 345

Impaired biliary excretion of copper and lysosomal enzymes in Long-Evans Cinnamon rat. *S. Abe, K. Yamazaki, S. Takikawa and K. Suzuki* 355

Clinical characteristics in non-insulin-dependent diabetic patients with long duration in Japan —— Relation to risk factors for vascular complications. *T. Onuma, M. Tsutsui, O. Uehara, M. Masuda, T. Kikuchi, M. Ishigame, K. Suzuki and K. Takebe* 369

Chronic exposure to simulated altitude does not increase angiogenic activity in skeletal muscle of rats. *H. Yamashita, K. Nakanishi, F. Tajima, Y. Sato, T. Kizaki, S. Oh-ishi and H. Ohno* 375

Short Reports

Endothelin receptor density in human hypertrophic and non-hypertrophic prostate tissue. *S. Kondo, T. Morita and Y. Tashima* 381

Cisplatin pasting for radiotherapy of penile cancer. *S. Okuyama, Y. Suzuki and M. Kato* 385

Mapping of the human gene for inducible heme oxygenase to chromosome 22q12. *A. Kuwano, H. Ikeda, K. Takeda, H. Nakai, I. Kondo and S. Shibahara* 389